Exploring the Extreme			
2004 Science			
Standard Course of Study			
North Carolina Science			
Grade 1			
Activity/Lesson	**State**	**Standards**	
Finding the Center of Gravity Using Rulers	NC	SCI.1.4.03	Investigate and observe that objects can move steadily or change direction.
Exploring the Extreme			
2004 Science			
Standard Course of Study			
North Carolina Science			
Grade 5			
Activity/Lesson	**State**	**Standards**	
Jet Propulsion	NC	SCI.5.4.06.a	Build and use a model to solve a mechanical design problem. Devise a test for the model.
Vectoring	NC	SCI.5.4.06.a	Build and use a model to solve a mechanical design problem. Devise a test for the model.
Exploring the Extreme			
2004 Science			
Standard Course of Study			
North Carolina Science			
Grade 6			
Activity/Lesson	**State**	**Standards**	
Jet Propulsion	NC	SCI.6.1.02.a	Develop appropriate experimental procedures for: Given questions.
Jet Propulsion	NC	SCI.6.1.02.b	Develop appropriate experimental procedures for: Student generated questions.
Vectoring	NC	SCI.6.1.02.a	Develop appropriate experimental procedures for: Given questions.
Vectoring	NC	SCI.6.1.02.b	Develop appropriate experimental procedures for: Student generated questions.
Vectoring	NC	SCI.6.1.05.a	Develop appropriate experimental procedures for: Explain observations.
Vectoring	NC	SCI.6.1.05.b	Develop appropriate experimental procedures for: Make inferences and predictions.
Vectoring	NC	SCI.6.1.05.c	Develop the relationship between evidence and explanation.
Vectoring	NC	SCI.6.1.08.b	Defend conclusions of scientific investigations.
Vectoring	NC	SCI.6.1.09.b	Develop appropriate experimental procedures for: Develop appropriate experimental procedures for: Gather and analyze data.

Vectoring	NC	SCI.6.1.09.d	Develop appropriate experimental procedures for: Disseminate findings to others.
Center of Gravity, Pitch, Yaw	NC	SCI.6.1.06.a	Develop appropriate experimental procedures for: Measurement.
Exploring the Extreme			
2004 Science			
Standard Course of Study			
North Carolina Science			
Grade 7			
Activity/Lesson	**State**	**Standards**	
Jet Propulsion	NC	SCI.7.1.02.a	Develop appropriate experimental procedures for: Given questions.
Jet Propulsion	NC	SCI.7.1.02.b	Develop appropriate experimental procedures for: Student generated questions.
Vectoring	NC	SCI.7.1.02.a	Develop appropriate experimental procedures for: Given questions.
Vectoring	NC	SCI.7.1.02.b	Develop appropriate experimental procedures for: Student generated questions.
Vectoring	NC	SCI.7.1.05.a	Develop appropriate experimental procedures for: Explain observations.
Vectoring	NC	SCI.7.1.05.b	Develop appropriate experimental procedures for: Make inferences and predictions.
Vectoring	NC	SCI.7.1.09.b	Develop appropriate experimental procedures for: Gather and analyze data.
Vectoring	NC	SCI.7.1.09.d	Disseminate findings to others.
Center of Gravity, Pitch, Yaw	NC	SCI.7.1.06.a	Develop appropriate experimental procedures for: Measurement.
Exploring the Extreme			
2004 Science			
Standard Course of Study			
North Carolina Science			
Grade 8			
Activity/Lesson	**State**	**Standards**	
Jet Propulsion	NC	SCI.8.1.02.a	Develop appropriate experimental procedures for: Given questions.
Jet Propulsion	NC	SCI.8.1.02.b	Develop appropriate experimental procedures for: Student generated questions.
Jet Propulsion	NC	SCI.8.1.05.a	Analyze evidence to: Explain observations.
Vectoring	NC	SCI.8.1.02.a	Develop appropriate experimental procedures for: Given questions.
Vectoring	NC	SCI.8.1.02.b	Develop appropriate experimental procedures for: Student generated questions.
Vectoring	NC	SCI.8.1.05.a	Analyze evidence to: Explain observations.

Vectoring	NC	SCI.8.1.05.b	Analyze evidence to: Make inferences and predictions.
Vectoring	NC	SCI.8.1.07.c	Prepare models and/or computer simulations to: Make predictions.
Vectoring	NC	SCI.8.1.09.b	Gather and analyze data.
Center of Gravity, Pitch, Yaw	NC	SCI.8.1.06.a	Use mathematics to gather, organize, and present quantitative data resulting from scientific investigations: Measurement.